



Active Thermal Management

*The trusted name in thermal protection*

## SYSTEM 1 DUAL-INPUT THERMAL SWITCH

The Active Thermal Management Dual Input switch allows independent control of any size System 1 fan (either in-line or EXT models) by either of two thermal sensors. If the temperature of either sensor reaches (approximately) 88° F, the fan will start. When both sensors are below (approximately) 84°, the fan will stop. Other AC line-powered equipment drawing no more than 5 amps can also be controlled.

To install the control system, mount each thermal sensor on the equipment whose temperature is to be monitored. If either sensor's lead is too short, it can be extended by cutting and splicing in 2-conductor wire. Any wire of (minimum) 22 gauge suitable for low-voltage, low current applications, such as speaker wire, may be used; the connections are not polarity or phase sensitive.

Plug the wall-type DC power supply into any always-live AC outlet and connect its output to the "POWER IN" jack on the control box.

Plug the control box into any always-live AC outlet, and the System 1 fan into the pigtail socket.

### CHANGING TEMPERATURE SETTINGS:

To adjust the temperature at which the fans start, **first disconnect the control box from AC power**, but leave the low-voltage dc power supply connected. Open the control box, exposing two thermal control modules. If you want to adjust both modules, skip the next step.

To adjust just 1 module, use the heat of your fingers or a hair dryer on the thermal sensor whose module is to be adjusted, and see which temperature display rises; this is the module to adjust.

To see the temperature at which the fans will start, press the SET button momentarily on the module. Press the + or - buttons. After setting the new temperature, either press SET again or wait a few seconds for the display to stop

(661) 294-7999 voice

(661) 294-1115 fax

[techinfo@actvethermal.com](mailto:techinfo@actvethermal.com)

[www.activethermal.com](http://www.activethermal.com)

flashing. (The factory setting is 29 to 31 degrees for most ATM products using this module, approximately 85-87 degrees Fahrenheit.)

The only other parameter that should be changed - if necessary - is the differential, the difference in degrees (C) between the fan's starting and stopping temperatures. (The factory setting is 2 Celsius degrees for most ATM products, about 4 Fahrenheit degrees.)

To change the differential, press & hold SET until the digits stop flashing and "P0" is displayed. Press + once and the display will show P1. Press SET again and the present differential will display. Press + or - to set the desired differential, then wait a few seconds for the display to return to its normal mode.

If you accidentally change any other parameters, these are the factory settings: (some variation is normal from lot to lot of the modules.)

P0=C (for "cooling")  
P2=110  
P3=-50  
P4=0  
P5=0  
P6=OFF

For your convenience, here are some commonly-used Fahrenheit temperatures and their Celsius equivalents, rounded to the nearest whole degree:

75F = 24C	80F = 27C
85F = 29C	90F = 32C
95F = 35C	100F = 38C

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